

ABSTRACT OF THE DISCLOSURE

The present invention provides a hybridization method and kit for the detection and measurement of biological molecules. A test sample containing the biological molecules of interest is hybridized with an unlabeled or optionally a detectably-labeled complementary biomolecule to form a double-stranded hybrid immobilized to a solid phase. The immobilized hybrid may be detected with an entity which specifically recognizes an RNA:DNA hybrid, followed by analyses and quantification. Therefore, the present invention provides a method and kit to detect and measure biological molecules that is simple to use, highly specific, sensitive, and accurate for screening a plurality of biological molecules.